

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Kirby
NAME OF RESERVOIR

54-4
DATA SHEET NO.

DAM	1. OWNER City of Abilene			2. RIVER Cedar Creek			3. STATE Texas		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Abilene			6. COUNTY Taylor		
	7. STREAM BED ELEV. 1,745.5			8. TOP OF DAM ELEV. 1,795.5			9. SPILLWAY CREST ELEV. 1,785		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN			
	a. FLOOD CONTROL					Sept. 1928			
	b. POWER								
	c. WATER SUPPLY	1,785	740	8,133	8,133	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE					Sept. 1928			
17. LENGTH OF RESERVOIR 1.0 MILES			AV. WIDTH OF RESERVOIR			MILES			
WATERSHED	18. TOTAL DRAINAGE AREA 44		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 25.2 (57)		INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 42.8		SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES		
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF		AC.-FT.		
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Sub-humid				
	26. DATE OF SURVEY		27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE- FEET	33. C/W RATIO AC.-FT. PER SQ. MI.
Sept. 1928		-	-	-	-	740	8,133	185	
Nov. 1941		13.2	13.2	Recon.	34 meas.	740	7,618	173	
SURVEY DATA	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AC.-FT.			
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE		
SURVEY DATA	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.				
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR		
	Nov. 1941	515	39.0	0.91	515	39.0	0.91		
SURVEY DATA	26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM		
			a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
	Nov. 1941				0.48	6.33	-	-	

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR													
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES
 The sediment is predominantly a red silt, with some banding with brown in the lower lake basin.

Region 4, Soil Conservation Service
 U. S. Department of Agriculture
 Fort Worth, Texas

48. AGENCY SUPPLYING DATA
 49. DATE January 2, 1951